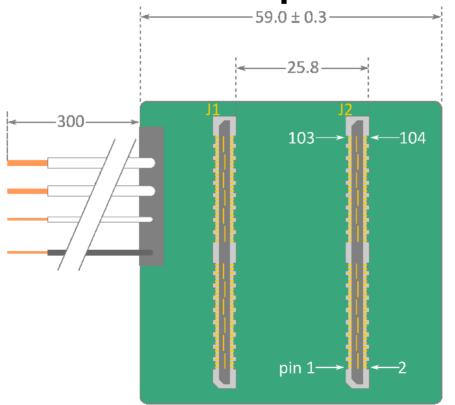
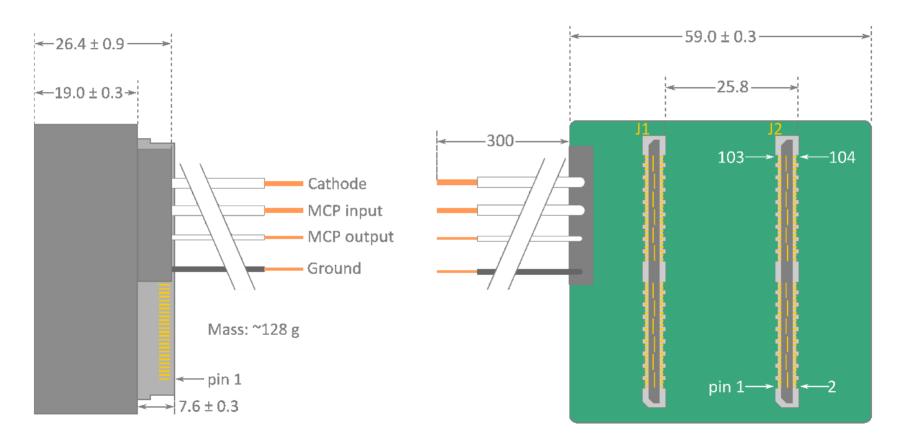
Plans for the next DiRICH backplane



PHOTONIS XP85112-S-BA

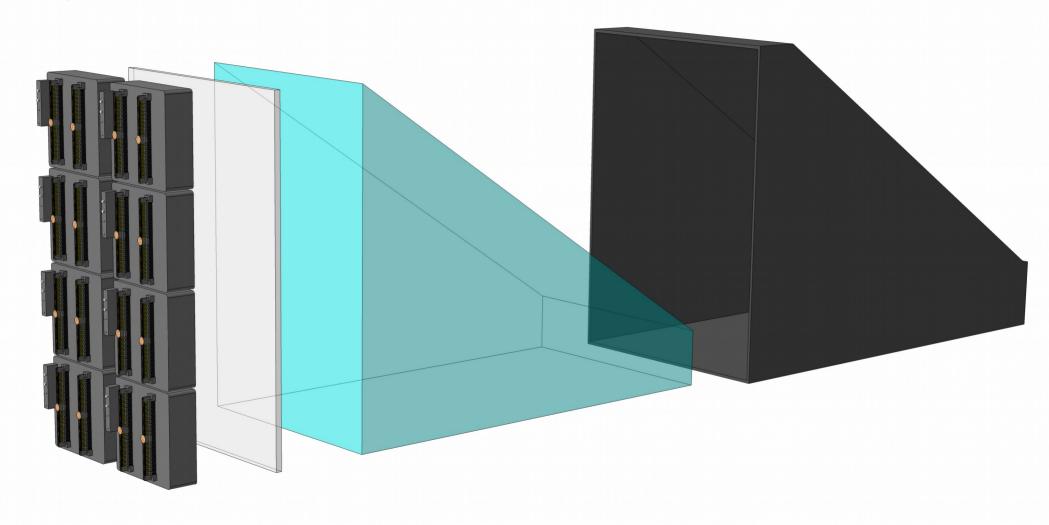
New configuration with SAMTEC plugs nedd a new backplane https://www.samtec.com/products/qrm8-052-05.0-l-d-a-k-tr

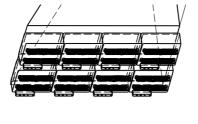


old

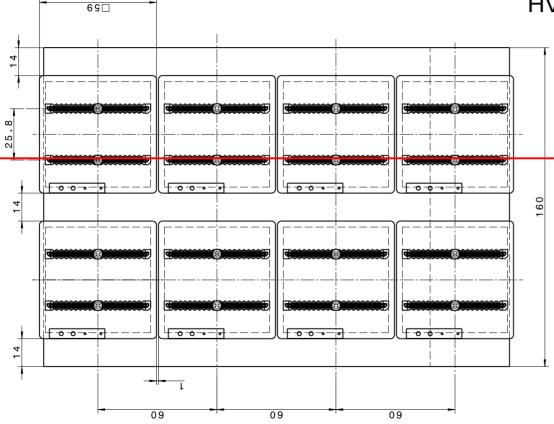
Technical drawings all from Andreas Gerhardt

new



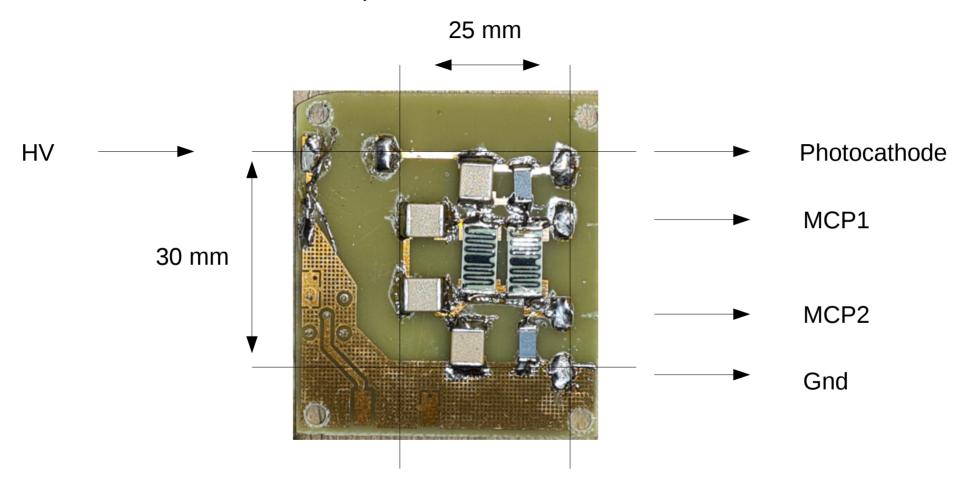


Two backplanes, HV-plugs at inside or outside

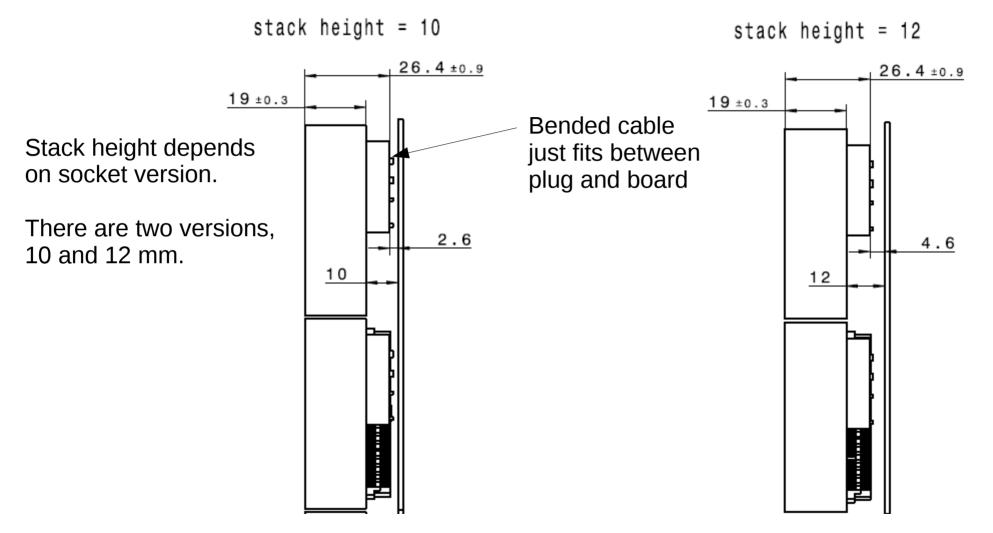


Carsten Schwarz, March 8, 2022, GSI, DIRC meeting

Present HV-divider with SMD parts

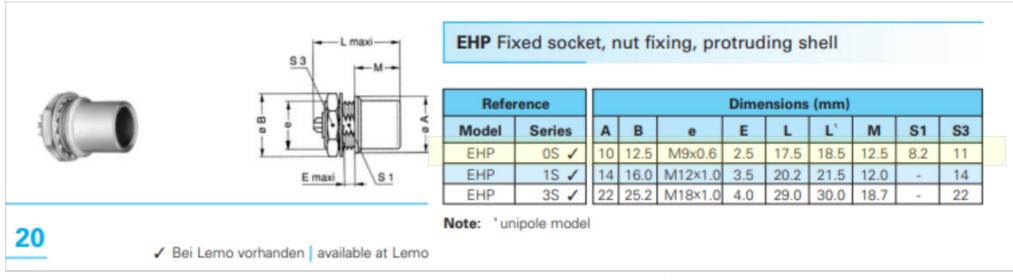


SMD-Socket ("Buchsenle ste") Hole for HV plug (10 mm dia.) **Dimensions** - HV-divider - PMT - plug hole scale



Carsten Schwarz, March 8, 2022, GSI, DIRC meeting

Candidate for socket



5 kV

(HV within FR4 board 30 kV/mm \rightarrow 16 planes: 1.5mm/32 = 47um \rightarrow 1.4 kV \rightarrow 8 planes: 1.5mm/16 = 94um \rightarrow 2.8 kV)

Summary

First idea to include HV-divider on backplane.

Options to discuss:

which socket? (Lemo, S-HV)

each MCP one plug?

It is possible to add plug and divider parts later and use hole for cables